Special Issue

Application and Characterisation of Hybrid Halide Perovskites

Message from the Guest Editor

This Special Issue concerns the application and characterisation of hybrid halide perovskites, which have, over the last few years, become the focus of the photovoltaic research community. The fast enhancement of the related solar cell performance is due to their unique photophysical properties, such as remarkable optical absorption across a wide range of the solar spectrum. Hybrid halide perovskites have an ABX3 structure (where A = methylammonium. formamidinium rubidium, caesium; B = tin, lead; X = iodine, chlorine, bromine) and thin films can be grown by different methodologies ranging from vacuum technologies to wet chemistry. Mixing the cations and/or the halides, perovskite with band gap from 1.1 to 3.0 eV can be obtained and, therefore, this class of materials is also attractive for applications in lasing, light-emitting and thermoelectric devices. Original research papers and review papers related to the application and characterisation of hybrid halide perovskites are welcome. Applications or characterisation techniques will also be considered for publication.

Guest Editor

Dr. Vanira Trifiletti

University of Milano - Bicocca, Department of Materials Science and Milano - Bicocca Solar Energy Research center (MIB-SOLAR), 20125 Milan, Italy

Deadline for manuscript submissions

closed (16 December 2019)



Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/20395

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/ metals





Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

